

Things to Know, Understand and Do For Chapter 8: Chemical Equations and Reactions

By the end of Chapter 8, you should

Know how to...
Tell when a chemical reaction is taking place.
Write a balanced chemical equation from a word equation.
Balance a chemical equation using coefficients.
Determine which of the major types of reactions (synthesis, decomposition, etc.) is taking place by looking at an equation.
List the various kinds of each synthesis, decomposition, single replacement, and double replacement reactions.
Predict the products of a chemical reaction if given the reactants.
Use an activity series or solubility table to determine if a chemical reaction will occur.
Write an ionic and net ionic equation for a double replacement reaction.
Indicate the spectator ions for a chemical reaction.

understand...
What the symbols (s), (aq) etc. mean in a chemical equation.
How to count atoms in compounds in order to balance chemical equations.
That coefficients in reactions mean moles of reactants and products.
The difference in types of chemical reactions.
The significance of an activity series and of the different solubility of ionic compounds and how they affect reactions.
What a spectator ion is.
That a net ionic equation shows the actual reaction taking place.

IF YOU DO NOT KNOW IONS YOU WILL FAIL THE TEST ON THIS CHAPTER

Ch 8 HMWK AF

pg 254 Q 5
pg 264 Q 2, 4
pg 267 Q 2, 3
pg 269 Q 1
pg 270 Q 20, 21, 24
pg 271 Q 30, 35
pg 272 Q 37 a + b